

SBS Technologies, Inc.

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**VXS1**

The VXS1 Rugged 6U VME PowerPC Single Board Computer works with other SBS products to bring 10 GBps InfiniBand switched fabric technology to VME systems. The VXS1 hosts the G4 PowerPC processor with core processor speeds from 500 MHz to 1 GHz and a 167 MHz system bus. It includes two independent InfiniBand 4x links through VME_P0 and provides InfiniBand and system control traffic termination. The VXS1 also provides two Gigabit Ethernet ports to the backplane, one 64-bit 66 MHz PCI bus interface, and one 64-bit 66/133 MHz PCI-X interface, as well as two MPSC ports that provide RS-232 (COM1) and RS-422 (COM2) rear I/O ports.

**FEATURES:**

- MPC7447A G4 host PowerPC 1 GHz processor with 512 kB on-chip L2 cache
- MV64460 PowerPC System controller (Discovery III) bridge chip
- MT23108 InfiniBand Host Channel Adapter with 128 MB of control memory
- 2eSST VMEbus: Tsi148 VME Bus bridge
- Two Ethernet 10/100/1000BASE-TX ports at rear I/O (third port to front panel RJ-45 connector on convection-cooled version)
- Conduction- or convection-cooled with extended temperature range (-40 °C to +85 °C)